

Light Modulation System

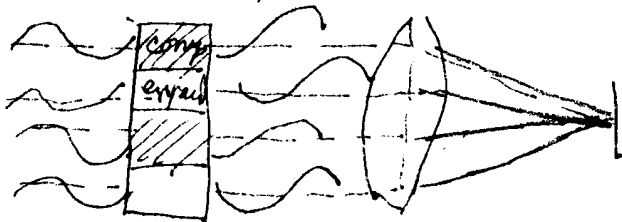
H.F. Reimann

Nachrichtentechnik

Vol 7 #11 Nov 1957

pp 515-518

~~laser~~ reflector



quartz

$$\frac{\Delta}{n + \Delta n} = \Delta V \pm V$$

$$\Delta n = \frac{c}{\Delta V \pm V} - n = \frac{c - n\Delta V \mp nV}{\Delta V \pm V}$$

$$c = c = 3 \times 10^{10} \text{ cm/sec}$$

$$V = V_0, \text{ pressure normal.}$$

$$V = \frac{1}{\sqrt{\mu \epsilon}}$$

$$\Delta n = \frac{c - n\Delta(\mu \epsilon)^{-1/2} \mp n(\mu \epsilon)^{-1/2}}{\Delta(\mu \epsilon)^{-1/2} \pm (\mu \epsilon)^{-1/2}}$$

$$\frac{c - \frac{n}{\Delta(\mu \epsilon)^{1/2}} \mp \frac{n}{(\mu \epsilon)^{1/2}}}{\frac{1}{\Delta(\mu \epsilon)^{1/2}} \pm \frac{1}{(\mu \epsilon)^{1/2}}} = \frac{\frac{c(\mu \epsilon)^{1/2} \Delta(\mu \epsilon)^{1/2} - n(\mu \epsilon)^{1/2} \mp n\Delta(\mu \epsilon)^{1/2}}{(\mu \epsilon)^{1/2} \pm \Delta(\mu \epsilon)^{1/2}}}{\frac{(\mu \epsilon)^{1/2} \pm \Delta(\mu \epsilon)^{1/2}}{(\mu \epsilon)^{1/2} \pm \Delta(\mu \epsilon)^{1/2}}} =$$

$$\frac{c(\mu \epsilon)^{1/2} \Delta(\mu \epsilon)^{1/2} - n(\mu \epsilon)^{1/2} \mp n\Delta(\mu \epsilon)^{1/2}}{(\mu \epsilon)^{1/2} \pm \Delta(\mu \epsilon)^{1/2}}$$

$$\frac{(c(\mu \epsilon)^{1/2} \mp n)\Delta(\mu \epsilon)^{1/2} - n(\mu \epsilon)^{1/2}}{(\mu \epsilon)^{1/2} \pm \Delta(\mu \epsilon)^{1/2}}$$

This document
file. If separate
subjected to the